

WHAT WE CLAIM IS:

- 1 1. A label-pasting method comprising the steps of:
2 feeding a label-material sheet, which is composed
3 of only label material, from its roll and applying pres-
4 sure-sensitive adhesive to the label-material sheet;
5 cutting out labels from the label-material sheet
6 with pressure-sensitive adhesive; and
7 pasting the cut-out labels on a packing sheet.
- 8 2. A label-pasting method as claimed in claim 1
9 characterized by the pressure-sensitive adhesive which is hot
10 melt adhesive and applied to an area within the outline of,
11 and smaller than, each label portion of the label-material
12 sheet to be cut out in the next step.
- 13 3. A label-pasting device comprising:
14 an adhesive applier for applying pressure-
15 sensitive adhesive to a label-material sheet composed of only
16 label material;
17 a die cutter for cutting out labels from the la-
18 bel-material sheet with pressure-sensitive adhesive; and
19 a label paster for pasting the cut-out labels on
20 a packing sheet.
- 21 4. A label-pasting device as claimed in claim 3
22 wherein:
23 the adhesive applier and the die cutter are
24 synchronized;
25 the adhesive applier applies pressure-sensitive
26 adhesive to an area within the outline of, and smaller than,
27 each label portion of the label-material sheet to be cut out
28 by the die cutter; and
29 the pressure-sensitive adhesive is hot melt
30 adhesive.
- 31 5. A label-pasting device as claimed in claim 3
32 wherein:
33 an anvil roller constituting the die cutter serves
34 as the label paster too; and

1 the anvil roller is disposed so as to be rotatable
2 in contact with a running surface of the packing sheet and
3 provided with a vacuum mechanism which sucks each cut-out
4 label onto the periphery of the anvil roller until said label
5 is pasted on the packing sheet.

6 6. A label-pasting device as claimed in claim 5 of
7 which the label paster comprises:

8 said anvil roller which is separated from the said
9 running surface of the packing sheet;

10 a conveying belt which is disposed between the anvil
11 roller and the top surface of the packing sheet and carries
12 each label received from the anvil roller in the running
13 direction of the packing sheet; and

14 a pressing belt which is disposed on the downstream
15 side of the conveying belt and presses each label onto the
16 packing sheet.

17 7. A label-pasting device as claimed in claim 3 of
18 which the label paster is a vacuum-belt unit disposed on the
19 exit side of the die cutter, the vacuum-belt unit comprising:

20 a small-diameter roller disposed close to the exit
21 of the die cutter;

22 a large-diameter roller which is disposed so as to
23 be in contact with the packing sheet and provided with a vacuum
24 mechanism; and

25 a vacuum belt which is laid around the small-
26 diameter roller and the large-diameter roller and has many
27 ventholes.

28 8. A label-pasting device as claimed in claim 7
29 wherein a pair of pressure rollers is disposed on the
30 downstream side of the large-diameter roller to press each
31 label onto the packing sheet.

32 9. A label-material sheet composed of only label
33 material and having label portions arranged successively in
34 its longitudinal direction.

35 10. A label with hot melt adhesive applied to its

1 back, the adhesive-applied area being within the outline of,
2 and smaller than, the label.

3 11. Labels which are cut out from a label-material
4 sheet composed of only label material while the label-material
5 sheet is fed from its roll and hot melt adhesive is applied
6 to an area of the back of each label portion of the la-
7 bel-material sheet, the area being within the outline of, and
8 smaller than, said label portion.

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